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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/896,888A

DATE: 11/23/2001
TIME: 10:49:59

Input Set : N:\Crf3\RULE60\09896888A.RAW
Output Set: N:\CRF3\11232001\I896888A.raw

1 <110> APPLICANT: The University of British Columbia
2 <120> TITLE OF INVENTION: Insect Expression Vectors
3 <130> FILE REFERENCE: 80021-44
4 <140> CURRENT APPLICATION NUMBER: 09/896,888A
5 <141> CURRENT FILING DATE: 2001-06-29
6 <150> PRIOR APPLICATION NUMBER: US/09/048,911
7 <151> PRIOR FILING DATE: 1998-03-26
8 <150> PRIOR APPLICATION NUMBER: 60/049,946
9 <151> PRIOR FILING DATE: 1997-03-27
10 <160> NUMBER OF SEQ ID NOS: 50
11 <170> SOFTWARE: PatentIn Ver. 2.0
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 564
15 <212> TYPE: DNA
16 <213> ORGANISM: Orgyia pseudotsugata
17 <400> SEQUENCE: 1
18 catgatgata aacaatgtat ggtgctaatt ttgcttcaac aacaattctg ttgaactgtg 60
19 ttttcatgtt tgccacaacg caccttata ctcgggtggcc tccccaccac caacttttt 120
20 gcactgcaaa aaaacacgct tttgcacgct gcccataca tagtacaaac tctacgtttc 180
21 gtagactatt ttacataat agtctacacc gttgtatacg ctccaaataac actaccacac 240
22 attgaacctt tttgcagtgc aaaaaagtac gtgtcggcag tcacgttaggc cggccttatac 300
23 gggtcgcgtc ctgtcacgta cgaatcacat tatcggaccg gacgagtgtt gtcttatgt 360
24 gacaggacgc cagttcctg tttgtctaacc cgcagccgga cgcaactcct tatcggaaaca 420
25 ggacgcgcct ccatatcagc cgcgcgttat ctcatgcgcg tgaccggaca cgaggcgccc 480
26 gtcccgccta tcgcgcctat aaatacagcc cgcaacgatc tggtaaacac agttgaacag 540
27 catctgttac agcgacacaa catg 564
29 <210> SEQ ID NO: 2
30 <211> LENGTH: 44
31 <212> TYPE: DNA
32 <213> ORGANISM: Orgyia pseudotsugata
33 <400> SEQUENCE: 2
34 cccgcggatcg atatctgact aaatcttagt ttgtattgtc atgt 44
36 <210> SEQ ID NO: 3
37 <211> LENGTH: 24
38 <212> TYPE: DNA
39 <213> ORGANISM: Orgyia pseudotsugata
40 <400> SEQUENCE: 3
41 cgggtgcgca cgcgcgttggaa agga 24
43 <210> SEQ ID NO: 4
44 <211> LENGTH: 45
45 <212> TYPE: DNA
46 <213> ORGANISM: Artificial Sequence
47 <220> FEATURE:
48 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR amplifier
49 <400> SEQUENCE: 4
50 aatttaaacg ttggtaccct cgagctcagc tgaattctgg atcct 45
52 <210> SEQ ID NO: 5

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Input Set : N:\Crf3\RULE60\09896888A.RAW
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53 <211> LENGTH: 45
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR amplifier
58 <400> SEQUENCE: 5
59 ctagaaggat ccagaattca gctgagctcg aggtaccaag ctta 45
61 <210> SEQ ID NO: 6
62 <211> LENGTH: 36
63 <212> TYPE: DNA
64 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR amplifier
67 <400> SEQUENCE: 6
68 ctagaccggt catatgcggg ccgcggatcg atcgat 36
70 <210> SEQ ID NO: 7
71 <211> LENGTH: 30
72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Description of Artificial Sequence: PCR amplifier
76 <400> SEQUENCE: 7
77 atcgatcgat ccgcggccgc atatgaccgt 30
79 <210> SEQ ID NO: 8
80 <211> LENGTH: 25
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
85 <400> SEQUENCE: 8
86 tcgggtgcgc acgcgcgttga aagga 25
88 <210> SEQ ID NO: 9
89 <211> LENGTH: 55
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
92 <220> FEATURE:
93 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
94 <400> SEQUENCE: 9
95 tcagctgcag atgaagaggc cttagacctat gaaaccagta acgttatacg atgtc 55
97 <210> SEQ ID NO: 10
98 <211> LENGTH: 50
99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
103 <400> SEQUENCE: 10
104 acttaagctt atagcgatga ctgcccgcctt tccagtcggg aaacacctgtcg 50
106 <210> SEQ ID NO: 11
107 <211> LENGTH: 67

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108 <212> TYPE: DNA
109 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Description of Artificial Sequence: Bombyxin
112 secretion signal oligonucleotide fragment
113 <400> SEQUENCE: 11
114 aattatgaag atactccttg ctattgcatt aatgttgtca acagtaatgt gggtgtcaac 60
115 aagctta 67
117 <210> SEQ ID NO: 12
118 <211> LENGTH: 67
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Description of Artificial Sequence: Bombyxin
123 secretion signal oligonucleotide fragment
124 <400> SEQUENCE: 12
125 ctagtaagct tggacacc cacattactg ttgacaacat taatgcaata gcaaggagta 60
126 tcttcat 67
128 <210> SEQ ID NO: 13
129 <211> LENGTH: 66
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Description of Artificial Sequence: Enhancer
134 sequence OpE
135 <400> SEQUENCE: 13
136 ccttcagaac gcgtgcgcac ccgaaaagca gggtcgcgc tgacgcactg ctaaaaatag 60
137 cacgcg 66
139 <210> SEQ ID NO: 14
140 <211> LENGTH: 462
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: Description of Artificial Sequence: Promoter
145 sequence of the OpMNPV ie2 gene
146 <400> SEQUENCE: 14
147 cccaccacc aactttttt cactgaaaaa aaacacgctt ttgcacgcgg gcccatacat 60
148 agtacaaaact ctacgtttcg tagactatt tacataaata gtctacaccc ttgtatacgc 120
149 tccaaataaca ctaccacaca ttgaaccttt ttgcagtgc aaaaagtacg tgcggcagt 180
150 cacgtaggcc ggccttatcg ggtcgcgtcc tgcacgtac gaatcacatt atcggaccgg 240
151 acgagtgttgc ttatcgatc acaggacgcg agcttcgtt gttgctaacc gcagccggac 300
152 gcaactcctt atcggaaacag gacgcgcctc catatcagcc ggcgttata tcattgcgt 360
153 gaccggacac gaggcgcccg tcccgcttat cgccctata aatacagccc gcaacgatct 420
154 gttaaacaca gttgaacagc atctgttaca ggcacacaac at 462
156 <210> SEQ ID NO: 15
157 <211> LENGTH: 88
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:

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161 <223> OTHER INFORMATION: Description of Artificial Sequence: Fragment of
162 promoter sequence of the AcMNPV ien gene
163 <400> SEQUENCE: 15
164 gataaaattha aaatgaattt ttttgcaatg caaaaaagtt cactttgcc tgacactcca 60
165 tatacagtagc aatctctaca aatcgtag 88
167 <210> SEQ ID NO: 16
168 <211> LENGTH: 92
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Description of Artificial Sequence: Fragment of
173 promoter sequence of the AcMNPV ien gene
174 <400> SEQUENCE: 16
175 ctattttatt agaatagtct acactgtacg atacgctccc aataatactac tacactatca 60
176 actttttgc attacaaaaa agttcatttt tg 92
178 <210> SEQ ID NO: 17
179 <211> LENGTH: 12
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Description of Artificial Sequence: Fragment of
184 the promoter sequence of the AcMNPV ien gene
185 <400> SEQUENCE: 17
186 cctggcaagt tc 12
188 <210> SEQ ID NO: 18
189 <211> LENGTH: 17
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Description of Artificial Sequence: Fragment of
194 the promoter sequence of the AcMNPV ien gene
195 <400> SEQUENCE: 18
196 ccccaccaact attgtct 17
198 <210> SEQ ID NO: 19
199 <211> LENGTH: 16
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Description of Artificial Sequence: Fragment of
204 the promoter sequence of the AcMNPV ien gene
205 <400> SEQUENCE: 19
206 tatacgtcggt gcagta 16
208 <210> SEQ ID NO: 20
209 <211> LENGTH: 50
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Description of Artificial Sequence: Fragment of
214 the promoter sequence of the AcMNPV ien gene

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Input Set : N:\Crf3\RULE60\09896888A.RAW
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215 <400> SEQUENCE: 20
216 ctgataaaaca gtataaatac agctgccgtt ctactcgtaa gcacagttca 50
218 <210> SEQ ID NO: 21
219 <211> LENGTH: 25
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Description of Artificial Sequence: Fragment of
the promoter sequence of the AcMNPV ien gene
225 <400> SEQUENCE: 21
226 agcctcacag cctagtgaac agtat 25
228 <210> SEQ ID NO: 22
229 <211> LENGTH: 10
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Description of Artificial Sequence: IE2B promoter
element
235 <400> SEQUENCE: 22
236 gacaggacgc 10
238 <210> SEQ ID NO: 23
239 <211> LENGTH: 18
240 <212> TYPE: DNA
241 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Description of Artificial Sequence: IE2B promoter
element
245 <400> SEQUENCE: 23
246 cttatcgta caggacgc 18
248 <210> SEQ ID NO: 24
249 <211> LENGTH: 10
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <223> OTHER INFORMATION: Description of Artificial Sequence: IE2B promoter
element
255 <400> SEQUENCE: 24
256 aacaggaagc 10
258 <210> SEQ ID NO: 25
259 <211> LENGTH: 18
260 <212> TYPE: DNA
261 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: Description of Artificial Sequence: IE2B promoter
element
265 <400> SEQUENCE: 25
266 cttatcgaa caggacgc 18
268 <210> SEQ ID NO: 26
269 <211> LENGTH: 132

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/896,888A

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Input Set : N:\Crf3\RULE60\09896888A.RAW
Output Set: N:\CRF3\11232001\I896888A.raw

L:293 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:293 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:323 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:323 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:351 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:351 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:379 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:379 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:407 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:407 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:432 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:432 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:455 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:455 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: